

ROTATING SEAL ARRANGEMENT FOR TURBINE BUCKET COOLING
CIRCUITS

ABSTRACT OF THE DISCLOSURE

[0026] The dovetails of turbine buckets are received in dovetail grooves between circumferentially adjacent wheelposts on a turbine wheel of a gas turbine rotor. The wheel and a spacer are rabbeted one to the other and an axially forwardly extending projection on each bucket dovetail is undercut to space the bucket projection from the outer rim of the spacer eliminating stress on the bucket from the spacer. A cavity is formed between radially outwardly converging wall portions of the spacer and end faces of the wheelposts and bucket dovetails. An annular seal wire conforms and seals between the spacer wall portions and end faces of the wheelposts and bucket dovetails in response to centrifugal forces during turbine operation.